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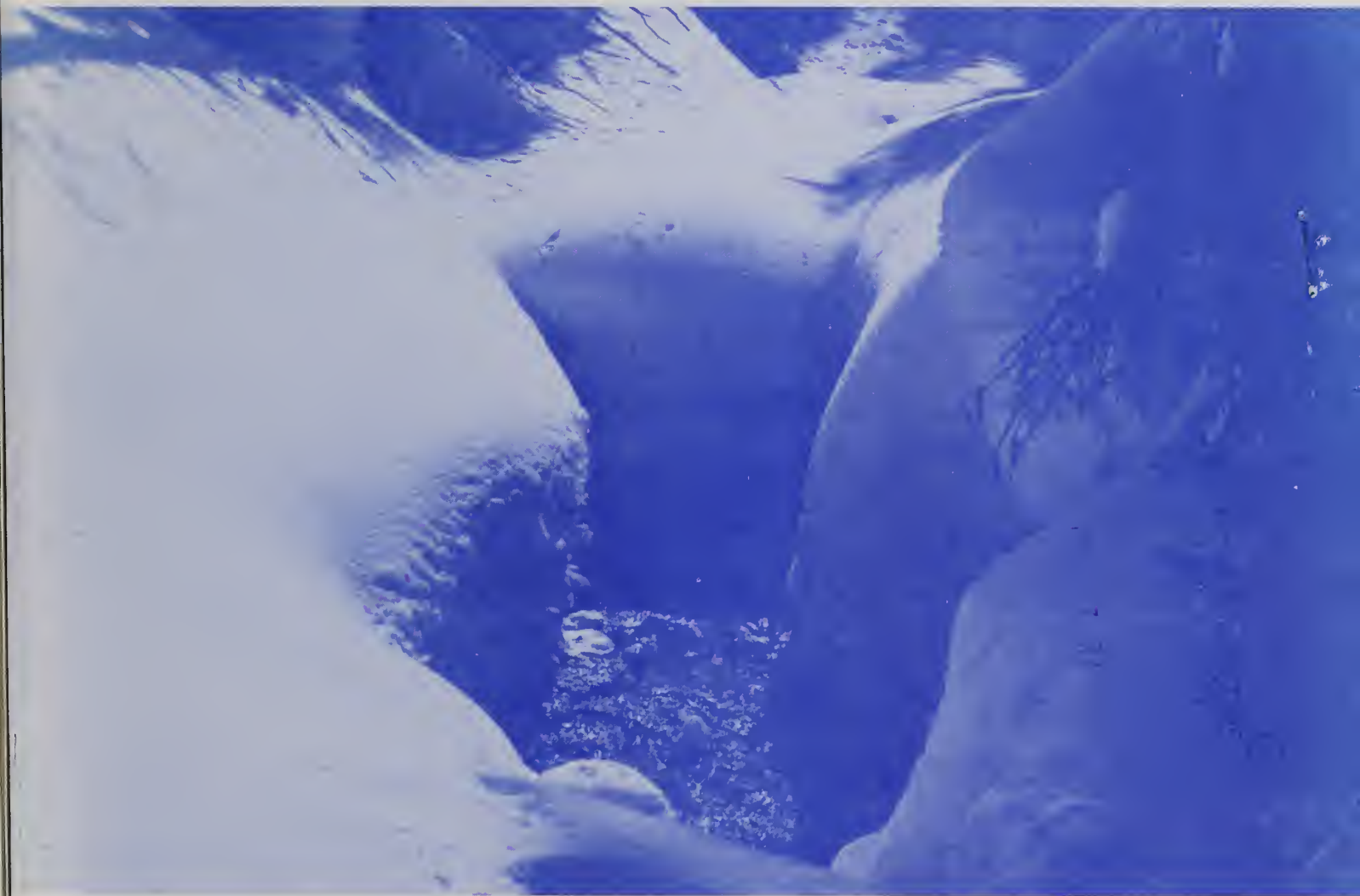
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# Water Supply Outlook For Nevada



SOIL CONSERVATION SERVICE  
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

NEVADA DEPARTMENT OF CONSERVATION  
AND NATURAL RESOURCES

AS OF  
March 1, 1984

## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

## COVER PHOTO: SPRING IS ON THE WAY.

Published by Soil Conservation Service

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland Oregon 97209.

Copies of state and local reports may also be obtained from the state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	2490 W. 26th Avenue, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th St., Boise, Idaho 83702
Montana	32 E. Babcock, Bozeman, Montana 59715
Nevada	P.O. Box 4850, Reno Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	100 E. "B" St., Casper, Wyoming 82601

### PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 - -- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



# **Water Supply Outlook For Nevada**

**AND  
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS**



Issued by

PETER C. MYERS  
CHIEF  
SOIL CONSERVATION SERVICE  
WASHINGTON D.C.

Released by

GERALD THOLA  
STATE CONSERVATIONIST  
SOIL CONSERVATION SERVICE  
RENO, NEVADA

In Cooperation with

ROLAND D. WESTERGARD  
DIRECTOR  
DEPARTMENT OF CONSERVATION AND  
NATURAL RESOURCES  
CARSON CITY, NEVADA



For Further Information  
Please Contact  
**The Soil Conservation Service**  
in

Battle Mountain, Nevada  
Highway 8A, Lemaire Road  
Phone: 702-635-2650

Caliente, Nevada  
360 Lincoln Street  
Phone: 702-726-3101

Cedarville, California  
USDA Building  
Phone: 916-276-6110

Eldo, Nevada  
Post Office Building  
Phone: 702-738-8431

Ely, Nevada  
1190 Avenue E  
Phone: 702-289-4065

Eureka, Nevada  
Sentinel Building  
Phone: 702-237-5251

Fallon, Nevada  
111 Sheckler Road  
Phone: 702-423-5124

Las Vegas, Nevada  
310 Almond Tree Lane  
Phone: 702-385-6426

Lovelock, Nevada  
1055 Cornell Street  
Phone: 702-273-2134

Minden, Nevada  
1694 County Road  
Phone: 702-782-3661

Reno, Nevada  
1281 Terminal Way  
Phone: 702-784-5408

South Lake Tahoe, California  
3552 Highway 50, Suite 1  
Phone: 916-541-1496

Tonopah, Nevada  
170 Mineral Street North  
Phone: 702-482-5506

Winnemucca, Nevada  
1200 Winnemucca Blvd., East  
Phone: 702-623-2265

Yerrington, Nevada  
215 West Bridge Street  
Phone: 702-463-2265

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All Averages are for 1961-1980 Period.





# WATER SUPPLY OUTLOOK

## FOR NEVADA

### SNOWPACK MEASUREMENTS

Nevada March first snowpack conditions vary greatly throughout the state. Eastern and northern Nevada snow course totals exceed two hundred percent of average, while the southern part is less than sixty percent. The western course measurements range between 110 and 120 percent of average.

The Upper Humboldt River Basin is currently 290 percent of the March first average. Many courses exceed all time March first records. For example, Green Mountain is seven inches above the previous maximum established in 1936, while Lamoille #1 is half an inch above the 1952 reading.

Lower Humboldt River snow courses are also breaking records with the Basin 251 percent of average. Golconda #2 is 5.8 inches above the previous high recorded in 1969.

The Lower Colorado River is the only basin in Nevada below average. The overall basin average is 57 percent of the twenty year figure. The Lee Canyon #2 snow course is 18.2 inches below the record established in 1969.

Eastern Nevada snow courses are 181 percent of average. Snow water equivalent at Robinson Summit is 4.0 inches compared to 2.7 inches in 1983 and a two inch average. Ward Mountain #2, with a twenty year average of 6.4 inches, has 11.1 inches of snow water.

The Tahoe, Truckee, Carson, and Walker Basins are all at 120 percent of average. Generally, the lower Tahoe-Truckee courses are below average while the higher elevation courses continue the above average trend established in December.

### RESERVOIR STORAGE

The surface elevation of Pyramid Lake continued to rise during February with an increase of 1.33 feet. The total rise since October 1, 1983 has been 5.53 feet.

Total reservoir storage in the seven monitored reservoirs is slightly above average, but is below the storage recorded on March 1, 1983. All reservoirs have had the storage levels adjusted to accommodate estimated spring run-off flows.

### STREAMFLOW FORECASTS

All streamflow forecasts have been adjusted since the February first water supply forecast was prepared. All estimates on the Carson, Walker, and Truckee Rivers show reductions while all points on the Humboldt River have increased. These adjustments were required because of varying precipitation conditions throughout the state

The forecast flows on the Truckee, Carson, and Walker Rivers are between 8 and 20 percent below the February first estimates. The Truckee River at Farad, for the period April through July, will produce 320,000 acre feet, which is 119 percent of average. The Little Truckee River above Boca is forecasted at 115,000 acre feet.

The Carson River at Carson City is projected at 210,000 acre feet while at Fort Churchill the flow will be 200,000 acre feet. These values are 15 to 18 percent below the February estimates, but still 115 and 120 percent of average, respectively.

Humboldt River forecast points are all above two hundred percent of average. The river at Palisades is forecasted at 650,000 acre feet which is 283 percent of average. The Comus forecast point is expected to record 510,000 acre feet or 295 percent of average.

Kingston Creek near Austin should generate 8,200 acre feet while the Franklin River near Arthur is expected to produce 12,000 acre feet. The estimated values are 249 and 208 percent of average, respectively.

**STREAMFLOW FORECASTS (Thousand Acre Feet) as of: March 1, 1984**

FORECAST POINT	Forecast Period	Forecast This Year	This Year as Percent of Average	Average +
<u>TRUCKEE RIVER</u>				
Galena Creek near Steamboat, NV	Apr-July	5.1	117	4.4
Little Truckee River above Boca, CA	Apr-July	124	124	92
Truckee River at Farad, CA 1/	Apr-July	320	119	269
Lake Tahoe Rise in ft. (assuming gates closed)	April 1 high	1.7	122	1.39
Sage Hen Creek, CA	Apr-July	7.2	111	6.5
Steamboat Creek at Steamboat, NV	Apr-July	6.1	177	5.2
<u>CARSON RIVER</u>				
East Carson near Gardnerville, NV	Apr-July	218	117	187
West Carson at Woodfords, CA	Apr-July	62	117	53
Carson River near Carson City, NV	Apr-July	210	115	182
Carson River near Ft. Churchill, NV	Apr-July	200	120	166
<u>WALKER RIVER</u>				
East Walker near Bridgeport, CA 2/	Apr-Aug	80	120	66
W. Walker below L. Walker near Coleville, CA	Apr-July	180	122	148
<u>SNAKE RIVER</u>				
Owyhee River near Owyhee, NV 3/	Apr-July	186	218	85
Owyhee River near Gold Creek, NV 3/	Apr-July	50	185	32
South Fork Owyhee R. near White Rock, NV	May-July	183	220	83
Salmon Falls Creek near San Jacinto, NV	Mar-Sept	160	170	94
<u>HUMBOLDT RIVER</u>				
Lamoille Creek near Lamoille, NV	Apr-July	50	174	28
S. Fork Humboldt Above Dixie Creek, NV	Apr-July	166	221	75
Marys River above Hot Springs, NV	Apr-July	75	203	37
North Fork Humboldt at Devils Gate, NV	Apr-July	83	239	35
Humboldt River at Palisade, NV	Apr-July	650	283	230
Humboldt River at Comus, NV	Apr-July	510	295	173
Kingston Creek near Austin, NV	Apr-July	8.2	249	3.3
L. Humboldt R. near Paradise, Valley, NV	Apr-July	24	250	9.7
Martin Creek near Paradise, NV	Apr-July	35	222	16
Reese River near Ione, NV	Apr-July	13	297	6.6
Rock Creek near Battle Mtn., NV	Mar-July	35	220	16
<u>NORTHERN GREAT BASIN</u>				
Bidwell Creek near Ft. Bidwell, CA	Apr-July	17.2	143	12
Mill Creek near Cedarville, CA	Apr-July	6.0	146	4.1
Deep Creek near Cedarville, CA	Apr-July	5.0	139	3.6
Eagle Creek near Eagleville, CA	Apr-July	6.0	140	4.3
Quinn River near McDermitt, NV	Apr-July	36	225	16
E. Fork Quinn R. near McDermitt, NV	Apr-July	36	225	16
McDermitt Creek near McDermitt, NV	Apr-July	27	225	12
<u>EASTERN NEVADA</u>				
Franklin River near Arthur, NV	Apr-July	120	203	5.9
Steptoe Creek near Ely, NV	Apr-July	3.8	190	2
<u>COLORADO RIVER</u>				
Virgin River at Littlefield, AZ	Apr-July	60	98	61
Virgin River at Hurricane, UT	Apr-June	68	110	62

NOTE: Streamflow forecasts which appear in this Bulletin are a coordinated activity of the National Weather Service and the Soil Conservation Service.

1/ Observed flow plus change in storage in Boca, Stampede, and Prosser Reservoirs, Donner, Independence, and Martis Creek Lakes, and minus the flow at Truckee River at Tahoe City, California.

2/ Observed flow plus change in storage in Bridgeport Reservoir.

3/ Observed flow plus change in storage in Wildhorse Reservoir.



# RESERVOIR STORAGE (Thousand Acre Feet) AS OF MARCH 1, 1984

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average†
Owyhee	Wild Horse	72	58	59	30
Lower Humboldt	Rye Patch	194	111	177	121
Colorado	Mohave	1,810	1,745	1,651	1,674
Colorado	Mead	26,159	24,046	24,427	17,520
Tahoe	Tahoe	745	508	555	491
Truckee	Boca	41	25	24	19
Truckee	Stampede**	222	201	202	120*
Truckee	Prosser***	30	9	9	8*
Carson	Lahontan	295	203	195	232
West Walker	Topaz	59	53	46	44
East Walker	Bridgeport	42	34	33	34

† Adjusted average.  
 \*\* Storage began August 1, 1969.  
 \*\*\* Flood Control use allocation of 20,000 acre-feet between November 1 and April 10.

1961-1980 Average

## TOTAL RESERVOIR STORAGE (Thousand Acre Feet)

MONTH	This Year	Last Year	Average †
October	705	1,172	786
January 1	1,211	1,070	844
February 1	1,041	1,114	920
March 1	992	1,089	968
April 1		1,079	1,010
May 1		972	1,032

The above data developed from Wild Horse, Rye Patch, Tahoe, Boca, Lahontan, Topaz, and Bridgeport Reservoirs in 1,000 Acre-feet.

TOTAL USABLE CAPACITY 1448

## PEAK FLOWS (MAXIMUM MEAN DAILY) (Av. flow for 24 hrs. on day of greatest flow)

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
East Fork Carson River near Gardnerville, NV	1800 - 2300	1,865
Carson River near Carson City, NV	2600 - 3200	2,098
Carson River near Ft. Churchill, NV	2150 - 2750	1,914
W. Walker R. below L. Walker nr Coleville, CA	1830 - 2330	1,589

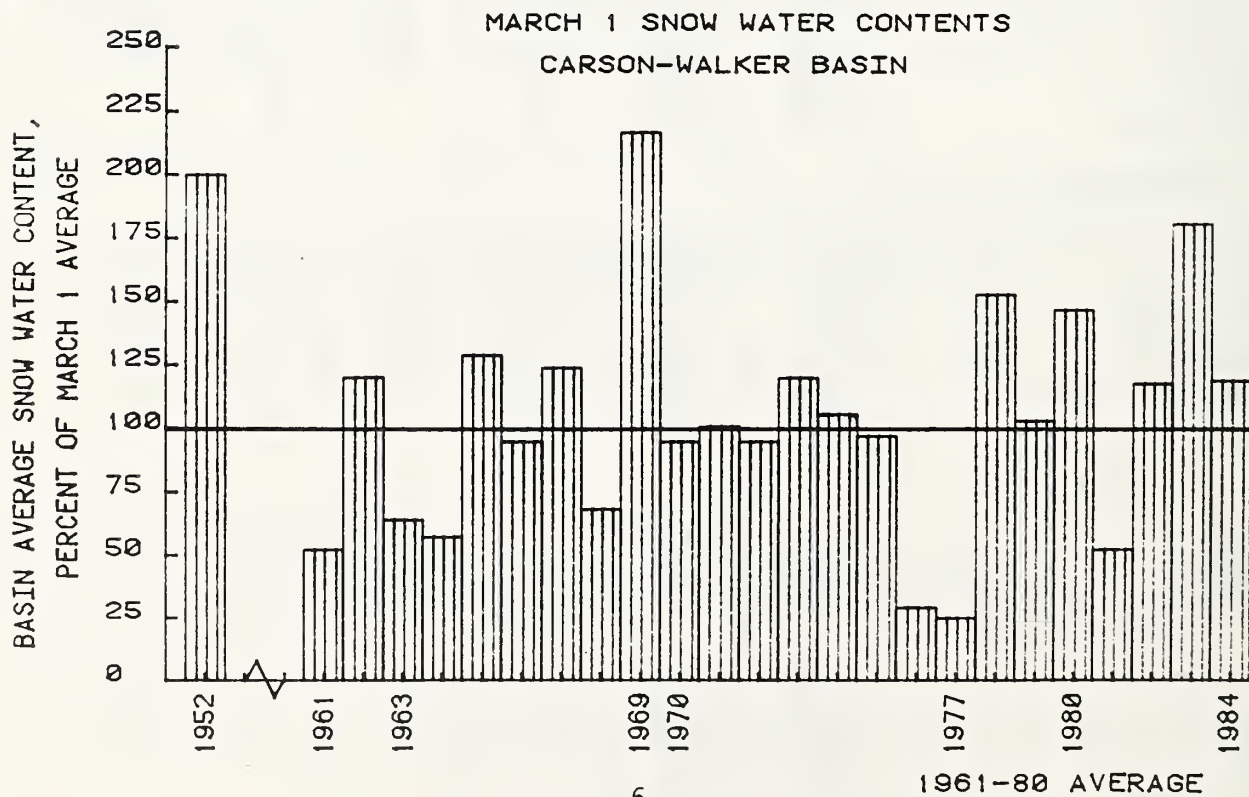
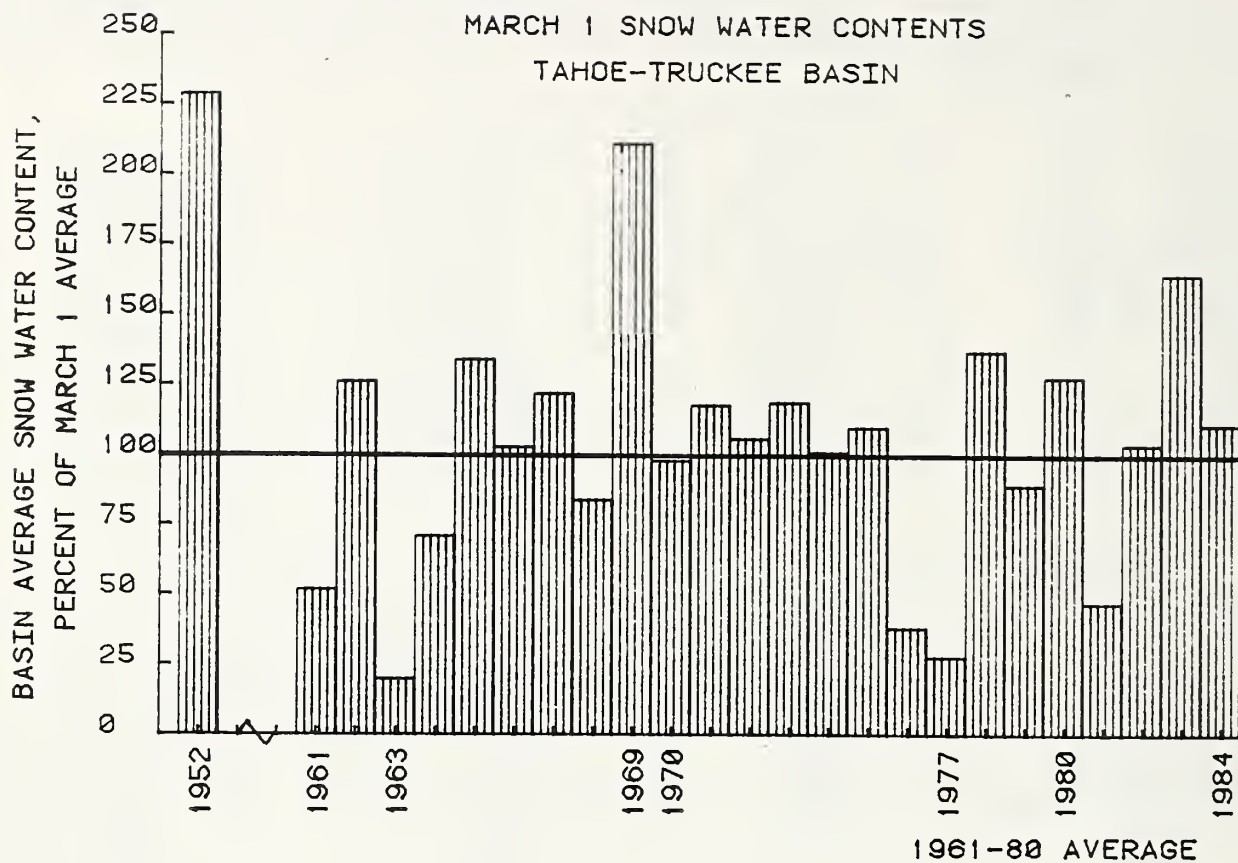
## FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
East Carson River near Gardnerville, NV	200	9/1	7/24

# PRECIPITATION (Inches)

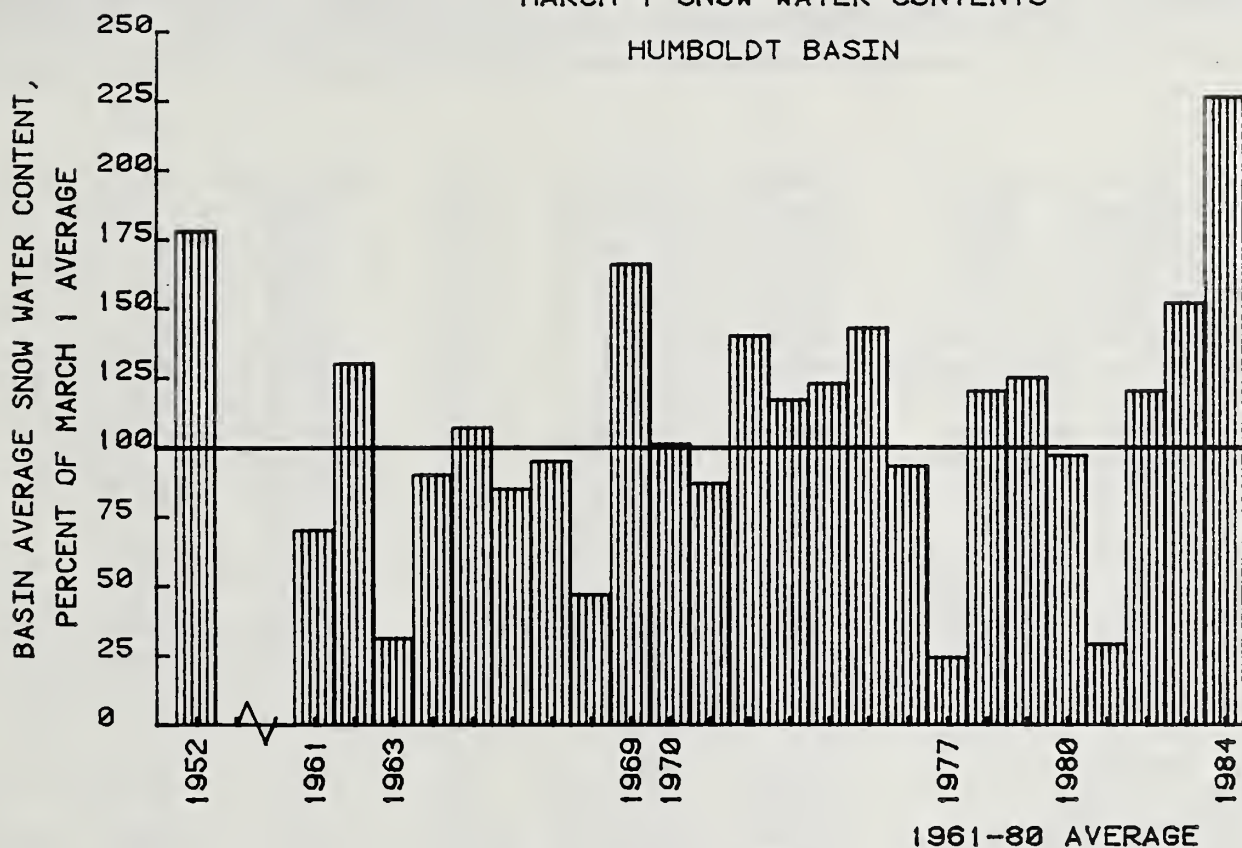
DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
		Date of Reading	Month's Precipitation	Last Year	This Year	Last Year	MARCH 1 Average
<u>TAHOE-TRUCKEE</u>							
Big Meadows	8,300	3/1/84	4.7	9.0	27.7	36.0	36.3
Central Sierra Snow Lab	6,900	3/1/84	----	15.5	----	63.1	----
Echo Peak (CA)	7,800	3/1/84	11.5	18.6	66.8	62.4	40.5
Fallen Leaf (CA)	6,240	3/1/84	2.0	8.6	16.3	35.0	24.1
Hagan's Meadows (CA)	8,000	3/1/84	4.8	7.4	27.7	27.2	21.2
Heavenly Valley (CA)	8,800	3/1/84	4.8	8.2	28.2	33.7	23.0
Independence Camp (CA)	7,000	3/1/84	4.5	8.8	33.7	33.2	23.5
Independence Creek (CA)	6,500	3/1/84	4.1	9.3	34.7	35.3	26.4
Independence Lake (CA)	8,450	3/1/84	6.0	14.3	41.2	48.2	32.2
Marlette Lake	8,000	3/1/84	5.0	8.8	31.0	36.1	22.5
Mount Rose	9,000	3/1/84	6.4	----	33.2	----	22.8
Mount Rose Ski Area	8,850	3/1/84	8.3	17.1	51.5	64.5	49.3
Rubicon #2 (CA)	7,500	3/1/84	6.1	10.8	40.1	44.1	33.7
Squaw Valley Gold Coast	7,800	3/1/84	4.5	----	57.4	----	61.0
Tahoe City Cross (CA)	6,750	3/1/84	5.3	9.9	36.9	37.6	33.2
Truckee #2 (CA)	6,400	3/1/84	3.9	8.6	31.4	34.2	27.4
Ward Creek #3 (CA)	6,750	3/1/84	6.5	17.5	70.0	65.7	48.7
<u>CARSON-WALKER</u>							
Blue Lakes (CA)	8,000	3/1/84	5.6	12.8	37.6	53.1	36.7
Ebbetts Pass #2 (CA)	8,700	3/1/84	7.3	13.4	44.7	57.6	35.9
Leavitt Meadows (CA)	7,200	3/1/84	2.7	6.0	29.3	31.9	29.8
Lobdell Lake (CA)	9,200	3/1/84	2.8	6.1	19.5	27.6	16.5
Pine Nut Creek (CA)	6,600	3/1/84	----	----	----	----	----
Poison Flat (CA)	7,900	3/1/84	4.0	7.4	----	34.9	24.0
Sonora Pass Bridge (CA)	8,800	3/1/84	4.7	8.9	32.9	41.0	23.9
Spratt Creek (CA)	6,080	3/1/84	3.6	7.9	30.0	36.9	25.7
Virginia Lakes Ridge (CA)	9,200	3/1/84	4.3	7.2	23.2	30.2	6.5
Wet Meadows (CA)	8,050	3/1/84	5.8	12.4	42.9	51.0	33.1
<u>HUMBOLDT</u>							
Big Creek Summit	8,700	3/1/84	3.2	2.4	21.3	16.5	8.2
Buckskin, Lower	6,700	3/1/84	4.3	3.5	22.6	15.8	14.2
Corral Canyon	8,500	3/1/84	4.8	2.5	24.9	17.6	13.4
Dorsey Basin	8,100	3/1/84	1.8	3.9	28.0	20.0	16.2
Fry Canyon	6,700	3/1/84	NR	----	----	----	NR
Granite Peak	7,800	3/1/84	3.6	5.2	----	22.4	17.2
Green Mountain	8,000	3/1/84	6.0	4.2	32.9	20.9	20.4
Lamance Creek	6,000	3/1/84	3.3	5.2	28.8	20.2	----
Lamoille #3	7,700	3/1/84	2.2	2.3	9.3	16.8	7.2
Martin Creek	6,700	3/1/84	NR	----	NR	----	----
Rodeo Flat	6,800	3/1/84	NR	----	NR	----	----
Trout Creek, Lower	6,900	3/1/84	NR	----	NR	----	----
<u>SNAKE-OWYHEE</u>							
Bear Creek	7,800	3/1/84	5.2	4.5	29.1	18.9	17.2
Big Bend	6,700	3/1/84	2.2	----	15.5	----	9.5
Fawn Creek #2	7,000	3/1/84	6.0	4.2	30.8	21.5	11.1
Goat Creek	8,800	3/1/84	4.4	----	27.7	20.1	18.4
Jack Creek #2, Upper	7,250	3/1/84	2.1	4.0	21.0	19.0	15.6
Jacks Peak	8,420	3/1/84	2.8	6.1	27.2	28.6	31.1
Laurel Draw	6,700	3/1/84	3.2	3.7	25.9	15.6	15.5
Pole Creek Ranger Station	8,330	3/1/84	2.5	2.0	17.8	10.4	11.3
Seventy Six Creek	7,100	3/1/84	2.9	3.3	21.4	13.3	12.7
Taylor Canyon	6,200	3/1/84	NR	1.1	NR	5.7	----
<u>EASTERN NEVADA</u>							
Berry Creek	9,100	3/1/84	2.5	----	15.2	----	13.5
Hole-in-Mountain	7,900	3/1/84	1.6	3.7	33.6	17.2	30.0
Ward Mountain	8,900	3/1/84	1.8	4.9	13.4	17.7	11.2
<u>NORTHERN GREAT BASIN</u>							
Cedar Pass (CA)	7,100	3/1/84	NR	5.7	NR	23.1	----
Disaster Peak	6,500	3/1/84	2.7	3.6	22.7	17.7	13.9
Dismal Swamp #2 (CA)	7,050	3/1/84	3.8	9.5	33.7	37.1	----
Ferguson Ranch	5,560	3/1/84	3.3	----	----	----	----
49 Mountain	6,000	3/1/84	5.1	----	----	----	----
Mount Bidwell (CA)	7,240	3/1/84	----	----	----	----	----

NR = NO REPORT

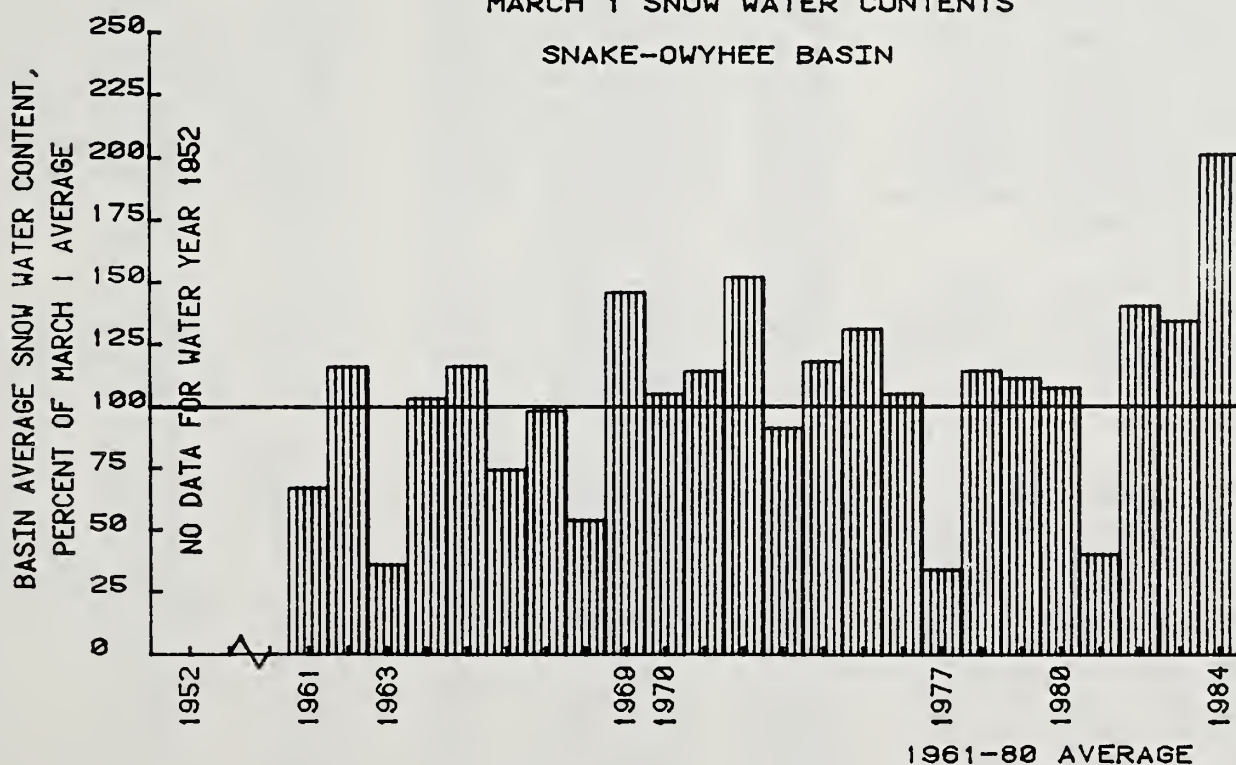




# MARCH 1 SNOW WATER CONTENTS HUMBOLDT BASIN



# MARCH 1 SNOW WATER CONTENTS SNAKE-OWYHEE BASIN



# SNOW COURSE MEASUREMENTS

SNOW COURSE MEASUREMENTS		THIS YEAR			PAST RECORD	
DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	Snow Depth (inches)	Water Content (inches)	Water Content	
NAME	Elevation				Last Year	Average +
LAKE TAHOE						
ECHO PEAK (CA)	7800	2/27/84	104	42.5	50.0	34.1
ECHO SUMMIT (CA)	7450	2/29/84	95	36.8	44.6	28.5
FALLEN LEAF (CA)	6300	2/24/84	14	6.0	18.8	6.8
FREEL BENCH (CA)	7300	2/27/84	26	8.4	20.7	11.0
GLENBROOK #2	6900	3/02/84	31	9.9	20.8	10.3
HAGANS MEADOW (CA)	8000	2/27/84	50	16.6	26.4	15.8
HEAVENLY VALLEY (CA)	8850	2/24/84	86	28.4	43.3	25.1
LAKE LUCILLE (CA)	8200	3/02/84	162	69.4	79.5	51.0
MARLETTE LAKE	8000	2/28/84	69	25.6	32.6	18.8
RICHARDSONS #2 (CA)	6500	3/02/84	41	13.0	28.0	14.6
RUBICON #1 (CA)	8100	3/02/84	134	53.0	56.0	39.3
RUBICON #2 (CA)	7500	3/02/84	81	31.6	44.9	24.8
TAHOE CITY CROSS(CA)	6750	3/02/84	45	17.8	39.6	17.6
TRUCKEE, UPPER (CA)	6400	2/27/84	22	7.4	15.8	9.4
WARD CREEK #2 (CA)	7000	3/01/84	104	41.0	53.8	34.3
WARD CREEK #3 (CA)	6750	2/27/84	98	38.0	50.8	31.5
TRUCKEE RIVER						
BIG MEADOWS (CA)	8300	2/27/84	64	23.1	31.0	--
BOCA #2 (CA)	5900	2/26/84	10	4.2	11.5	5.9
BROCKWAY SUMMIT (CA)	7100	3/02/84	45	16.2	34.0	16.5
CASTLE CREEK (CA)	7400	3/01/84	136	56.0	49.7	42.4
CSS LAB (CA)	6900	3/02/84	94	35.9	--	--
DONNER PARK #2 (CA)	6000	2/26/84	27	9.1	21.9	15.1
DONNER SUMMIT (CA)	6900	2/27/84	96	39.2	55.4	32.7
FORDYCE LAKE (CA)	6500	2/29/84	85	36.0	59.6	32.8
FURNACE FLAT (CA)	6700	2/29/84	102	43.7	66.2	38.0
INDEPENDENCE CAMP CA	7000	2/27/84	67	23.4	28.5	19.5
INDEPENDENCE CREEK	6500	2/27/84	36	11.8	20.3	12.2
INDEPENDENCE LAKE CA	8450	2/27/84	106	40.3	47.4	34.9
LITTLE VALLEY	6300	2/27/84	8	1.6	8.9	8.0
MT. ROSE	9000	3/01/84	95	37.3E	49.2	30.4
MT. ROSE SKI AREA	9000	3/02/84	117	46.9	61.3	38.2
SQUAW VALLEY #2 (CA)	7500	2/27/84	94	32.8	66.9	41.8
SQUAW VALLEY G.C.,CA	8200	3/02/84	133	54.5	75.5	3.2
TRUCKEE #2 (CA)	6400	3/02/84	32	10.8	25.9	13.1
CARSON RIVER						
BLUE LAKES (CA)	8000	2/23/84	102	36.0	47.5	32.9
ECHO PEAK (CA)	7800	2/27/84	104	42.5	50.0	34.1
CARSON PASS, UP (CA)	8600	2/24/84	93	38.3	45.9	29.7
CLEAR CREEK	7300	2/27/84	22	7.9	12.0	11.5
EBBETTS PASS #2 (CA)	8700	2/28/84	103	41.5	66.0	32.9
FISH VALLEY,UP AM,CA	8050	2/28/84	45	14.8	24.3	13.1
MONITOR, PASS AM(CA)	8350	2/28/84	48	17.3	34.7	--
POISON FLAT #2 (CA)	7900	2/28/84	56	17.2	27.3	15.7
SPRATT CREEK (CA)	6080	2/29/84	6	2.5	12.5	--
WET MEADOWS LAKE AM	8050	2/28/84	90	36.0	--	24.3
WET MEADOWS #2 (CA)	8100	2/28/84	107	42.5	64.7	35.5
WOLF CREEK AM (CA)	8000	2/28/84	94	37.6	52.6	28.4

# SNOW COURSE MEASUREMENTS

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (inches)	Water Content (inches)	Water Content	
NAME	Elevation				Last Year	Average <sup>+</sup>

## WALKER RIVER

CENTER MOUNTAIN (CA)	9400	2/28/84	106	41.6	64.4	33.3
LEAVITT LAKE (CA)	9400	2/28/84	126	53.6	58.6	40.9
LEAVITT MEADOWS (CA)	7200	2/28/84	21	9.2	33.3	10.1
LOBDELL LAKE (CA)	9200	2/28/84	53	18.2	33.2	15.4
SAWMILL RIDGE (CA)	8750	2/28/84	53	18.0	35.2	17.3
SONORA PASS (CA)	8800	2/28/84	71	28.3	44.3	22.1
SONORA PASS BRIDGE	8800	2/28/84	73	28.5	41.0	22.9
TIOGA PASS (CA)	9900	3/01/84	79	33.7	--	27.9
VIRGINIA LAKES (CA)	9500	2/28/84	51	18.8	31.1	15.8
VIRGINIA LAKES RIDGE	9200	2/28/84	56	20.5	31.4	16.2
WILLOW FLAT (CA)	8250	2/28/84	33	12.5	23.6	10.0

## NORTHERN GREAT BASIN

DENIO CREEK AM (OR)	6000	2/18/84	3	1.3E	1.2	.6
DISASTER PEAK	6500	2/18/84	65	24.7	20.6	11.6
QUINN RIDGE AM (OR)	6300	3/04/84	8	3.0E	3.4	1.6
TROUT CREEK AM (OR)	7800	3/04/84	28	10.8E	11.8	7.0

## SNAKE RIVER

BEAR CREEK	7800	3/06/84	78	29.2	21.8	17.9
FOX CREEK	6800	3/06/84	48	15.9	11.6	9.7
GOAT CREEK	8800	3/06/84	73	26.8	17.5	15.6
HUMMINGBIRD SPRINGS	8950	3/06/84	84	30.1	23.2	19.5
JAKES CREEK AM	7000	3/01/84	29	10.2	8.4	4.7
MERRIT MOUNTAIN AM	7000	3/01/84	60	20.4	7.8	6.4
POLE CREEK R.S.	8330	3/06/84	78	28.8	15.1	17.4
SEVENTYSIX CREEK	7100	2/28/84	61	21.7	14.4	10.5
STAG MOUNTAIN AM	7700	3/01/84	42	13.0	8.5	5.4

## OWYHEE RIVER

BIG BEND	6700	2/28/84	49	15.9	10.7	7.5
COLUMBIA BASIN AM	6650	3/01/84	62	21.1	10.5	8.2
FAWN CREEK AM	7050	2/28/84	84	26.9	17.6	10.5
FAWN CREEK #2	7050	2/28/84	78	27.6S	--	--
GOLD CREEK	6600	2/28/84	37	11.7	6.8	4.9
JACK CREEK, LOWER	6800	2/28/84	46	17.6	7.8	3.6
JACK CREEK, UPPER	7250	2/28/84	70	23.5	11.3	6.7
JACK CREEK #2, UPPER	7280	2/28/84	85	28.5S	26.8	--
JACKS PEAK	8420	2/28/84	109	37.0	27.3	20.9
LAUREL DRAW	6700	2/28/84	52	15.9	11.2	6.9
TAYLOR CANYON	6200	2/28/84	37	13.6	9.4	4.5



# SNOW COURSE MEASUREMENTS

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NAME	Elevation				Last Year	Average <sup>+</sup>

## UPPER HUMBOLDT RIVER

AMERICAN BEAUTY AM	7800	3/01/84	60	19.8	11.6	8.5
CORRAL CANYON	8500	2/29/84	76	24.8	16.9	12.3
DORSEY BASIN	8100	2/29/84	76	27.7	14.4	10.4
DRAW CREEK #2	7450	2/28/84	53	20.6	--	--
DRY CREEK	6500	2/29/84	46	14.9	9.6	3.5
FRY CANYON	6700	2/28/84	48	15.6	10.6	5.9
GREEN MOUNTAIN	8000	2/29/84	83	28.9	15.8	10.9
HARRISON PASS #1	6600	2/29/84	38	11.0	7.7	3.5
HARRISON PASS #2	7400	2/29/84	42	13.1	9.0	4.3
LAMOILLE #1	7100	2/29/84	54	16.5	11.2	8.1
LAMOILLE #3	7700	2/29/84	64	19.8	11.1	10.1
LAMOILLE #5	8700	2/29/84	100	40.5	24.0	21.3
POLE CANYON #2	7700	2/29/84	99	35.5	17.3	13.5
ROBINSON LAKE AM	9200	3/01/84	120	49.2	42.0	25.7
RODEO FLAT	6800	2/28/84	53	17.9	12.4	4.6
RYAN RANCH	5800	2/29/84	21	5.8	3.1	.8
SMITH CREEK	7700	2/29/84	75	25.3	17.7	10.9
TREMEWAN RANCH	5700	2/28/84	20	6.8	4.0	1.5
TROUT CREEK, LOWER	6900	2/29/84	33	99.1	7.9	2.8
TROUT CREEK, UPPER AM	8500	2/29/84	70	27.0	11.9	15.4

## LOWER HUMBOLDT RIVER

BIG CREEK CAMPGROUND	6600	2/29/84	4	1.6	3.3	1.6
BIG CREEK MINE	7600	2/29/84	37	12.4	7.7	4.4
BIG CREEK SUMMIT	8700	3/01/84	92	29.7S	21.0	10.0
BIG CREEK, UPPER	7800	2/29/84	45	14.6	7.4	5.4
BUCKSKIN, LOWER	6700	2/18/84	45	14.4	12.6	7.1
BUCKSKIN, UPPER	8200	2/18/84	57	23.8	13.6	8.4
GOLCONDA #2	6000	2/29/84	42	16.8	11.7	4.5
GRANITE PEAK	7800	2/18/84	62	26.4	24.9	13.1
LAMANCE CREEK	6000	2/18/84	60	22.6	17.3	9.0
MARTIN CREEK	6700	2/18/84	50	16.8	17.8	8.4
MIDAS	7200	3/01/84	36	12.6	11.0	2.2
SNOWSTORM MOUNTAIN	7420	3/01/84	63	22.0	21.0	10.9
TOE JAM AM	7700	3/01/84	60	20.4	11.7	8.5

## EASTERN NEVADA

BAKER CREEK #1	7950	2/28/84	22	4.9	6.0	5.6
BAKER CREEK #2	8950	2/28/84	45	13.4	13.0	11.0
BAKER CREEK #3 AM	9250	2/28/84	44	11.4	13.9	11.9
BERRY CREEK	9100	2/26/84	65	20.8	16.2	11.4
BIRD CREEK	7500	2/29/84	23	4.2	5.1	3.4
DEFIANCE MINES AM	9400	2/26/84	67	20.0	20.9	24.4
HOLE-IN-MOUNTAIN	7900	2/29/84	104	43.7	20.7	18.6
KALAMAZOO CREEK	7400	2/24/84	39	12.0	11.2	6.0
MURRAY SUMMIT	7250	2/27/84	21	4.6	5.6	2.9
ROBINSON SUMMIT	7600	2/27/84	15	4.0	2.7	2.0
SILVER CREEK #2	8000	2/26/84	24	6.8	.1	5.1
WARD MOUNTAIN #2	9200	2/26/84	36	11.1	17.1	6.4

# SNOW COURSE MEASUREMENTS

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## CENTRAL GREAT BASIN

## LOWER COLORADO RIVER

CORDUROY FLAT	8720	2/26/84	19	4.9	8.8	--
KYLE CANYON	8200	2/27/84	9	2.8	13.2	8.9
LEE CANYON #2	9000	2/27/84	14	3.8	21.1	6.4
LEE CANYON #3	8500	2/27/84	10	3.4	11.7	6.7
RAINBOW CANYON #2	8100	2/27/84	12	4.1	18.8	12.2
WHITE RIVER #1	7400	2/26/84	26	6.8	8.3	2.7

# SNOW COURSE MEASUREMENTS

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NAME	Elevation				Last Year	Average +

## DESERT RESEARCH INSTITUTE MEASUREMENTS

### TAHOE-TRUCKEE BASIN

Alder Creek	6,960	02/25/84	110	42.7	55.4	----
Apollo Way	7,300	02/25/84	18	6.7	37.9	----
Bennett Flat	6,200	02/25/84	38	12.9	29.0	----
Brockway Summit	7,200	02/25/84	64	21.0	41.5	----
Cabin Creek	6,540	02/25/84	35	12.4	28.8	----
Clear Creek	5,800	02/26/84	0	0	0.9	----
Cliff Ranch, Franktown	5,250	02/26/84	0	0	0	----
Davis Creek	5,160	02/26/84	0	0	0	----
Evergreen Hills Road	5,700	02/26/84	1.5	0.6	6.0	----
Fuller Lake	6,200	02/26/84	3	1.0	6.1	----
Galena Creek	7,440	02/25/84	65	21.5	0	----
Hennessey Past Jct.	6,410	02/25/84	44	13.8	25.8	----
Hobart Mills	5,850	02/25/84	23	8.5	17.3	----
Incline Creek	6,235	02/25/84	3	1.2	10.2	----
Jones Creek	6,000	02/25/84	3	1.1	7.5	----
Joy Lake	6,000	02/26/84	1.5	0.5	2.1	----
Jct. 395 & NV 27	4,590	02/26/84	0	0	0	----
Lancer	5,110	02/26/84	0	0	0	----
Little Valley	6,540	02/26/84	18	6.2	0	----
Mount Rose Resort	8,280	02/25/84	96	34.8	55.0	----
North Star Fire Dept.	6,320	02/25/84	12	3.0	19.4	----
RNR Forestry Site	6,400	02/25/84	25	8.5	17.5	----
Reindeer Lodge	7,060	02/25/84	35	12.7	31.4	----
Sagehen Creek	6,340	02/25/84	48	16.8	0	----
Sky Tavern	7,620	02/25/84	60	23.8	36.0	----
Spooner Summit	7,260	02/26/84	45.0	16.6	29.8	----
Squaw Valley Fire Dept.	6,240	02/25/84	30	8.8	38.3	----
Tahoe City	6,240	02/25/84	30	10.2	30.4	----
Tahoe Meadows	8,540	02/25/84	113	44.8	65.3	----
Tamarack Lake	8,820	02/25/84	89	32.5	54.6	----
Third Creek	8,000	02/25/84	67	24.5	43.2	----
Thunder Cliff	6,200	02/25/84	31	9.9	29.8	----
Truckee-Tahoe Airport	5,900	02/25/84	6	1.5	14.5	----
Whites Creek	5,670	02/26/84	0	0	0.3	----



## AGENCIES COOPERATING IN COLLECTING DATA CONTAINED IN THIS BULLETIN

### FEDERAL

Agricultural Research Service  
Bureau of Reclamation  
Fish and Wildlife Service  
Forest Service  
Geological Survey  
Soil Conservation Service  
U.S. District Court - Federal Water Master  
NOAA, National Weather Service

### STATE

California Cooperative Snow Surveys  
California Department of Parks and Recreation  
California Department of Water Resources  
Colorado River Commission of Nevada  
Idaho Cooperative Snow Surveys  
Nevada Association of Conservation Districts  
Nevada Department of Conservation & Natural Resources  
    Division of Water Resources  
    Nevada State Forester  
    Division of Conservation Districts  
Oregon Cooperative Snow Surveys  
University of Nevada, Desert Research Institute  
Utah Cooperative Snow Surveys

### PRIVATE

Amalgamated Sugar Company  
Kennecott Copper Corporation  
Nevada Irrigation District  
Owyhee Project North Board of Control  
Owyhee Project South Board of Control  
Pacific Gas and Electric Company  
Pershing County Water Conservation District  
Sierra Pacific Power Company  
Truckee - Carson Irrigation District  
Walker River Irrigation District  
Washoe County Water Conservancy District

Other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
P.O. BOX 4850  
RENO, NEVADO 89505

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## FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Furnishes the basic data  
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water supply for irrigation,  
domestic and municipal water  
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"The Conservation of Water begins  
with the Snow Survey"

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